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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/896,252      | 06/28/2001  | Atila Alvandpour     | 42390.P11944        | 9190             |

7590 05/05/2003

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EXAMINER

CHANG, DANIEL D

ART UNIT

PAPER NUMBER

2819

DATE MAILED: 05/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                 |                   |
|------------------------------|-----------------|-------------------|
| <b>Office Action Summary</b> | Application No. | Applicant(s)      |
|                              | 09/896,252      | ALVANDPOUR ET AL. |
|                              | Examiner        | Art Unit          |
|                              | Daniel D. Chang | 2819              |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 11 March 2003.

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1-24 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) 8-14 and 21-23 is/are allowed.

6) Claim(s) 1-7, 15-20 and 24 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 11 March 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

|  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

*Acknowledgement*

Receipt is acknowledged of the Response filed March 11, 2003.

*Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 15, and 24 are rejected under 35 U.S.C. 102(a) as being anticipated by the Applicant's Admitted Prior Art (Fig. 1).

Regarding claims 1 and 24, the Applicant's Admitted Prior Art discloses, in fig. 1, a dynamic circuit having an evaluation phase, the dynamic circuit comprising:

a node (11);

a power rail (Power Supply);

at least one nMOSFET (102) to conditionally pull the node LOW during the evaluation phase; and

a conditional keeper comprising:

a NAND gate (112, 114) having a first input port (gate of 112) connected to the node (via 106) and an output port (drain of 114); and

a first pMOSFET (108) having a gate connected to the output port of the NAND gate (via 106) and having a drain connected to the node.

Regarding claim 15, the Applicant's Admitted Prior Art discloses, in fig. 1, that the power rail connected to the source of the first pMOSFET (108).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2-7, 16, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant's Admitted Prior Art (Fig. 1).

The teachings of the Applicant's Admitted Prior Art have been discussed above.

Regarding claims 3, 4, 5 and 17, the Applicant's Admitted Prior Art teaches that the first transistor (108) is responsive to the output port voltage of the NAND gate (via 106) to pull the node **HIGH** only if the second input port (BI-ACTIVE) of the NAND gate is **LOW** but does not disclose that the first transistor (108) pulls the node **HIGH** when the second input port of the NAND gate is **HIGH**.

However, it is well known in the art that an inverter inverts a signal at its output respect to its input. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have provided a dynamic circuit of the Applicant's Admitted Prior Art with a well known inverter at the second input port (BI-ACTIVE) to provide an inverted signal. It is an obvious matter of design choice.

Regarding claims 6 and 19, the Applicant's Admitted Prior Art discloses, in fig. 1, an inverter (106) coupled to the inverter (106) and the node (via 114) to provide a keeper function.

Regarding claim 18, the Applicant's Admitted Prior Art discloses, in fig. 1, that the power rail connected to the source of the first pMOSFET (108).

Regarding claims 2, 7, 16, and 20, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to size the first pMOSFET larger than the second pMOSFET to the modified circuit as discussed above because the first pMOSFET inhibits the detrimental effects of charge loss that are expected to occur under more severe conditions and the second pMOSFET minimizes the capacitance it contributes to precharge the node.

#### ***Response to Arguments***

Applicant's arguments filed 3/11/2003 have been fully considered but they are not deemed to be persuasive.

Regarding claims 1 and 24, Applicant argues, on page 8 of the Response filed 3/11/2003, that the phrase "A connected to B" means that A is directly connected to B. However, "Coupled to one another" includes being joined together, but is broader than that, in that two things are directly connected. --*Kreis AG v. American Hospital Supply Corp. (DC NIII) 192 USPQ 585.*

Regarding claim 5, Applicant argues, on page 9, that “no discussion of a 35 U.S.C. 102(a) rejection of claim 5 appears in the Office Action.” However, claim 5 was rejected under 35 USC 103(a). See page 4 of the previous Office Action.

*Allowable Subject Matter*

Claims 8-14 and 21-23 are allowed.

*Conclusion*

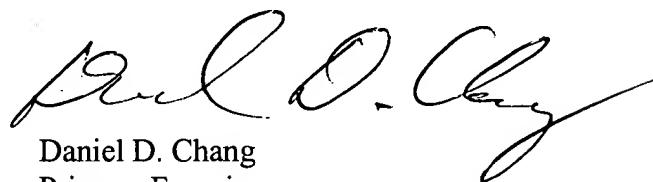
**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (703) 306-4549. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (703) 305-3493. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Daniel D. Chang  
Primary Examiner  
Art Unit 2819

DC  
May 2, 2003

DANIEL CHANG  
PRIMARY EXAMINER